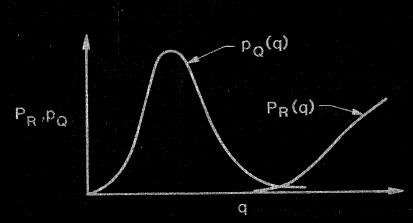# *Application of Risk Analysis to Offshore Oil and Gas Operations— Proceedings of an International Workshop*

$$\text{Prob(failure)} = \int_0^\infty \text{Prob } (R < q) \text{ Prob } (q < Q < q + dq)dq$$

$$= \int_0^\infty P_R (q) \, p_Q (q) \, dq$$

$P_R(q) = $ cumul. distr. funct. of resistance R

$p_Q(q) = $ prob. density funct. of load Q